Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

CW 96: Rhombus

**Honors Geometry**

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| 1. Label all missing angles.  50° | 2. Label all missing angles.  4 in  4 in  4 in  150°  4 in |
| 3. FDIG is a rhombus. Find m∠F .  *F*    *D*  3x  *G*  *I*  4x - 10 | 4. m∠D = 63°. m∠CAE = 12x – 7 and m∠BAE = 3x – 9. Find the angle measures of the rhombus. |

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| 5. Find the length of each diagonal.     Find the side length of rhombus ABCD  B  C  D  A  17 ft  11 ft | 6. Find the length of each diagonal.   GE =   DF =  50 in.  40 in  E  F  G  D |
| 7. Find the side lengths of Rhombus ABCD with AC = 10 and BD = 17. | 8. Rhombus WXYZ has a side length of 17 and diagonal XZ has a length of 30. Find the length of diagonal WY. |

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| 13. Determine the area of the rhombus.  **../../../../../Desktop/Screen%20Shot%202016-03-06%20at%209.12.00%20AM** | 14. Find the area of the rhombus.  **../../../../../Desktop/Screen%20Shot%202016-03-06%20at%209.14.43%20AM** |

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| MULTISTEP For each problem below, use strategies for solving right triangles in order find the dimensions you need to answer each problem. | |
| 17. Find the area and perimeter of the rhombus.  50 in.  40 in | 18. Find the area and perimeter of the rhombus.  15 ft  11 ft |
| **../../../../../Desktop/Screen%20Shot%202016-03-06%20at%209.14.43%20AM**19. m∠G= 78° and GE = 6 cm. Find the area and perimeter of rhombus EFGH. | |